

Abstract

The invention relates to viable and stable probiotic formulations for intestinal
5 targeting made of microspheres comprising each a core of one or more
probiotic bacteria, microcrystalline cellulose with a degree of polymerization
from 165-365 and mean diameter from 45 to 180 μm , a disintegrant and a
stabilizer, the core being coated with a non-enteric coating and further coated
10 with an enteric coating. Each probiotic microsphere has a residual moisture
level of less than 5% and a water activity (a_w) between 0.1 and 0.5. Such a
probiotic microsphere shows no reduction in viable bacteria after one hour in
simulated gastric fluid. The present invention also relates to the process of
preparing such formulation.

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